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Sky-Watcher 80/600 APO ED OTA PRO for paralormal mounting with GOTO SynScan HEQ5 PRO Sky-Watcher 80/600 APO ED OTA PRO is a perfectly designed apochromatic optical tube. One of the elements of the lens system is made of a high class low-dispersion ED (FPL-53). The novelty is the use of German glass company Schott AG, leading in the field of glass for optics as the chronicle of glass (the owner of Schott is 100% Carl Zeiss AG - a company known for the highest quality visible in optics design, what materials are used). All in all, we get the optics of one of the highest in the world, for a price that is a fraction of the price we have to pay for the tubes of Japanese brands with analogous parameters. Each glass-air surface was covered with layers of MHC (called "Metallic High-Transmission Coating"), ensuring efficiency on a single border of 99.5%. The excellent mechanics are in the first place Crayford's extract with a 1:10 microfocus cage. Included with the tube is a very good two-inch dielectric 90 ° angle cap with a efficiency of 98%, a 2 "focal-length 28 mm eyepiece, a 9x50 finder with a cross and a bracket and dovetail splint. A great tool for planetary observation and astrophoto for "piggy-back" as well as an observation telescope with outstanding optical quality. Note - in the new version of the kit there is a 9x50 aiming scope, straight , not angular, as in the pictures. Flattener (field flattener) is not part of the kit. Technical data of the optical tube ∅ optical system: APO ED ∅ Lens diameter: 80mm ∅ optical advances: Japanese FPL-53 (ED), cron - Schott AG ∅ focal length: 600mm ∅ weight: 2.47kg ∅ 2 "eyepiece with a microfooter 1:10 ∅ dimensions of the optical tube: 100x620mm . Usage Moon the planet star clusters nebulae scenery Mounting Synta SynScan HEQ5 PRO The optical tube is mounted on a solid, steel paralactic HEQ-5 mounting, with high rigidity and precision, equipped with a GOTO SynScan tracking and tracking system with a base of almost 14,000 objects and ephemerides of the Moon and planets of the Solar System. The Sky-Watcher HEQ-5 Pro SynScan paralormal assembly was designed for users who need both the high stability needed for amateur astrophotography and advanced visual observations, while providing relatively small weight and mounting size. The assembly was equipped with two-axis drives, the GOTO SynScan computer system, the polar field scope, solid locking clamps in the axis of right ascension and declination, the counterbalance rod built into the head (pull-out). The tripod is based on 1.75 "legs and offers maximum stability of the whole set. The maximum lifting capacity is about 16 kg, with a mass of 19 kg. Mounting the optical tube for mounting is possible with the standard dovetail mounting rail (included female dovetail) The GoTo SynScan remote control is a full and extended version that allows tracking and finding objects in the sky. The SynScan remote control provides three tracking speeds: stellar, lunar, solar objects in Dual Axis (RA) modes, RA (RA axis). The following alignment procedures are available: One-star Alignment, Two-star Alignment, Three-star Alignment. The database contains 25 definable objects by the user, as well as a full database of Messier, NGC and IC objects (13,436 objects in total). The pilot has also been programmed to easily find planets or the moon. Among its advanced features, it is worth paying attention to the mode of minimizing vibrations during long exposure shooting and software error correction periodic (PEC) as well as PC ports to control the telescope using a computer (RS-232 port) and Auto-Guide to precise alignment during photography with a tracking camera. Technical specifications for SynScan HEQ5 mounting ∅ power supply: 12 VDC 2Amp ∅ drive type: 1.8 ° stepper ∅ resolution: 0.144 of a second arc ∅ travel speeds: 2X, 8X, 16X, 32X, 64X, 400X, 500X, 600X, 800X Gear Ratio: 705 ∅ Tracking speed: star, moon, solar ∅ Dual Axis tracking mode (biaxial), RA (right ascension) ∅ alignment procedures: One-star Alignment, Two-star Alignment, Three-star Alignment (ie the procedure for setting one, two or three stars) ∅ database: 25 definable objects by the user, full database of Messier, NGC and IC objects (total of 13436 objects) ∅ minimizing vibration when shooting with a long exposure time ∅ programmable PE correction (periodic error) ∅ PC port to control the telescope using a computer (RS-232 port) ∅ Auto-Guide port for precise alignment during photography using a professional camera ∅ assembly type: paralactic German ∅ assembly of the optical tube: clamps (rings) ∅ microcaps: RA & Dec (controlled by the drive) ∅ tripod: 1.75 "steel ∅ tripod height: 85-147 cm ∅ tripod weight: 7.5 kg ∅ Counterbalance rod diameter: 1.1 cm ∅ material for the counterbalance rod: stainless steel ∅ assembly weight without counterweights: 9 kg ∅ assembly weight with counterweights: 19 kg ∅ mounting height: 41 cm ∅ counterweight: 2 x 5.1 kg ∅ maximum load: approx. 16 kg OFFERED TELESCOPIC LANDS TO START OBSERVATIONS IN THE FIRST FALLING NIGHT - INCLUDES ALL NECESSARY ACCESSORIES Warranty 2 years Note - in the new version of the kit there is a 9x50 aiming scope, straight , not angular, as in the pictures. Flattener (field flattener) is not part of the kit. (APO ED 80/600 refractor tube on a paralormal assembly with the GOTO system) (fastening via the dovetail universal rail) (the apochromatic lens allows you to get fantastic images of planets, in combination with SynScan HEQ5 PRO it is also a very good astrograph with medium and long exposure times) (1/4 inch screw on the bracket allows you to attach the camera directly on the tube and photograph the sky using the "piggyback" method) (photographic adapter with equalizer allows you to mount the DSLR in the eyepiece extractor with the T2 ring) (included 2 "/ 1.25" adapter allows the use of any 1.25 "glasses, microfocuser 1:10 allows for very precise focusing, high quality 2" angular adapter and 9x50 telescopic sighting device) (accessories included with the tube) (teleskop / tuba and accessories / in aluminum case - included) (complete tube in a closed aluminum case) Warning! This device focuses a lot of light. Looking directly at the sun through this device can result in partial or complete loss of vision. For the observation of the Sun, we recommend the safest method of spectacle projection, that is, projecting the image of the target of our day star on a piece of paper. ADDITIONAL MATERIALS READ : A SHORT OPTICAL CLEANER GUIDE [PDF] READ : HOW TO GET A COMPACT WITH A TELESCOPIC [PDF] PLEASE READ : HOW TO GIVE A DIGITAL MULTIPLE TELESCOPE [PDF]